

AGENDA ITEM SUMMARY

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High School Graduates Performance Report
Coordinating Board for Higher Education
April 9, 2015

DESCRIPTION

The Coordinating Board for Higher Education provides an annual report to the State Board of Education detailing the preparation, persistence, and completion rates of public high school graduates who enroll at Missouri's public two- and four-year postsecondary institutions. The intent of this board item is to provide a summary of the Missouri High School Graduates Performance Report for the public high school graduating classes of 2014 (Enrollment and Preparation), 2013 (Performance and Retention) and 2008 (Degree Completion).

Background

The Missouri High School Graduates Performance Report tracks Missouri's public high school graduates entering the state's public two- and four-year degree-granting postsecondary institutions as first-time, full-time, undergraduate, degree-seeking students in the fall semester following their high school graduation.

The annual report, which was first issued in 1996, provides information to secondary and postsecondary stakeholders regarding student preparation, persistence and completion. Background on the history and structure of the High School Graduates Performance Report is available in Attachment A. Selected statewide summary data are described below. Detailed summary tables are included in Attachment B, and trend tables for individual high schools are available at <http://dhe.mo.gov/data/hsgradreport.php>. Current detail data will be added in the near future.

Due primarily to staff turnover in MDHE's Data and Research services group, the report was not presented in 2014, but school data for the 2014 report have now been posted online, and past-year comparisons will be included here as appropriate.

Enrollment and Preparation

Total enrollment of same-year Missouri public high school graduates in Missouri public institutions increased slightly from 22,034 first-time, full-time, degree-seeking undergraduates in 2013 to 22,443 in 2014, an increase of 1.9 percent (Table 1). 10,610 students (47.3 percent) attended two-year institutions, and 11,833 students (52.7 percent) attended four-year institutions.

Policymakers acknowledge the link between college readiness and success at the postsecondary level. In the years since the High School Graduates' Performance Report was last presented, extensive policy work has been undertaken to strengthen students' preparation for entry into college-level work, and to lessen the need for remediation upon postsecondary enrollment.

The CBHE approved the addition of a fourth year of mathematics to its Recommended College Preparatory High School Core Curriculum, which became effective for entering college freshmen in fall 2014. The Task Force on College and Career Readiness, comprised of MDHE and institutional staff from two- and four-year institutions across the state, made recommendations which informed the development and approval of *Principles of Best Practices in Remedial Education*, including statewide recommendations on placement into remedial coursework.

MDHE and participating institutions have also collaborated to encourage reform and restructuring of remedial coursework, including the wider adoption of co-requisite and short-term, targeted assistance to students that doesn't completely precede or serve as a roadblock to their immediate participation in college-level coursework. The Department of Elementary and Secondary Education has also worked to implement new instructional standards which will better align with entry into postsecondary coursework, and has implemented statewide testing using ACT.

It may never be possible to completely untangle the individual impact of any of these major initiatives on student preparation and enrollment in remediation, but after years of relatively little change, the overall remediation rate among this cohort dropped from 35.6 percent in 2013 to 30.8 percent in 2014, with marked accompanying declines within content areas.

Remedial Participation of Recent Missouri Public High School Graduates in Public Postsecondary Institutions					
	Fall 2010	Fall 2011	Fall 2012	Fall 2013	Fall 2014
Total	36.0%	35.5%	35.6%	35.6%	30.8%
Math	30.2%	29.9%	30.8%	30.1%	26.2%
English	18.0%	15.4%	14.3%	15.5%	12.3%
Reading	9.3%	10.1%	9.1%	9.7%	7.6%

Of course, statewide averages can mask great variance across the state. Among high schools with at least 25 graduates enrolled in public colleges and universities in the fall of 2014, the percentage of students participating in any remedial coursework ranged from a low of approximately 4 percent to a high of over 84 percent.

Other Trends in Enrollment and Preparation:

- Fewer than half of all first-time, full-time high school Missouri public graduates entering an open admissions public institution enrolled in remedial coursework, a first in recent memory. The percentage of students enrolled in remedial coursework at moderately selective institutions dropped by approximately one-third (31.7 percent in fall 2013 to 21.4 percent in 2014), and the percentage enrolled in remedial math dropped by nearly half (25.2 to 13.0 percent).
- Overall remedial enrollments for women (32.4 percent) and men (28.7 percent) are at five-year lows, as are 2014 enrollments in remedial math: 28.2 percent for women and 23.6 percent for men.
- Racial and ethnic disparities persist, although overall remedial enrollments (52.5 percent) and math (44.0 percent) are markedly lower among African-Americans compared to fall 2013.

Performance and Retention in College

The High School Graduates Performance report also tracks several measures of student success and persistence in Missouri's public postsecondary sector. Detailed summary tables are included in Attachment B. Among the more significant findings for spring 2013 public high school graduates are:

- Fall-to-fall retention increased slightly since 2012 (77.1 percent compared to 76.6 percent). 2nd term (end of spring) retention is unchanged at 87.7 percent.
- On average, this cohort completed 30.4 credits by the end of the spring 2014 term with a 2.81 grade point average. Asian/Pacific Islanders completed 33.1 credits with a 2.94 GPA, and African-American students completed 19.6 credits with a 2.33 GPA.
- 1st term (first fall) retention is nearly identical across racial/ethnic groups, but begins to diverge at 2nd term, when Asian/Pacific Islanders retain at 92.2 percent and Caucasian students at 88.5 percent, but African-Americans retain at 83.1 percent.
- Female students have a higher fall-to-fall retention rate (78.9 percent compared to 74.8 percent for men), despite historically enrolling in remediation at higher rates.
- Retention rates varied by sector, which is indicative of differences in student demographics and preparation across sectors and institutional missions. Fall-to-fall retention in the two-year sector was 66.3 percent, compared to 86.7 percent at four-year institutions.

Degree Completion

The timely completion of a certificate or degree is an additional indication of how well prepared Missouri's high school graduates are for college-level work. Detailed tables in Attachment B show the six-year graduation rate of students beginning college in the fall of 2008. The findings include:

- Less than half (49.3 percent) of incoming public Missouri high school students who entered as a first-time, full-time degree-seeking student in fall 2008 had earned a two- or four-year degree from a public Missouri college or university by spring 2013. This rate does not account for transfer or completion from an independent or out-of-state institution, but is a slight improvement over the 2007 cohort (48.8 percent).
- 37.8 percent had earned a bachelor's degree, 14.6 percent earned an associate's degree, and 2.5 percent earned a graduate or professional degree within six years. Some students earned more than one degree, and are counted here more than once.
- Women were more likely than men (52.0 percent compared to 45.9 percent) to have earned a degree, as were students enrolled at highly selective (78.1 percent) and selective (68.1 percent) institutions.

Conclusion

The Missouri High School Graduates Performance Report provides important data about trends in the preparation and performance of public high school graduates who attend public postsecondary institutions in Missouri. The entering high school class of 2014 enrolled in remedial coursework at a markedly lower rate than previous cohorts, and while discussions will continue regarding the best way to capture enrollment in co-requisite and other non-course length models of remedial support, the relative persistence and completion rates of this and following cohorts will also serve as an important measure of the effectiveness of these alternative approaches.

STATUTORY REFERENCES

Section 173.750 RSMo, Annual reporting of performance of graduates, furnishing of report procedure data included

RECOMMENDED ACTION

This is an information item only.

ATTACHMENT(S)

Attachment A: History and Background
Attachment B: Detailed Tables

High School Graduates Performance Report

History and Background

The Missouri High School Graduates Performance Report tracks Missouri public high school graduates entering the state's public two- and four-year postsecondary institutions as first-time full-time, degree-seeking students in the fall semester following their high school graduation.

In accordance with Section 173.750, RSMo, the Missouri High School Graduates Performance Report should provide information to individual high schools and should be disaggregated by race and gender. No data identifying individual students should be included. The governing statute is available in its entirety at <http://www.moga.mo.gov/statutes/c100-199/1730000750.htm>. The report should include:

- Grade point average after the initial year in college
- Percent of students returning to college after the first and second semester
- Percent of students taking remedial courses in the basic academic subjects of English, mathematics, or reading
- Other data as determined by rule and regulation of the Coordinating Board for Higher Education

Data comprising the report comes from student enrollment data provided annually by Missouri's public colleges and universities. No data in the report comes from the state's independent higher education institutions. High school of record was verified by building-level data from the Missouri Department of Elementary and Secondary Education.

High School Graduates Report Detailed Tables

Enrollment and Preparation

Table 1: Recent Public Missouri High School Graduate Enrollment by Sector, Gender, and Race/Ethnicity, 2005 to 2014												10-Year % Change	1-Year % Change
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014		
Overall Enrollment	#	19,875	20,195	20,839	21,598	22,228	23,948	23,742	21,018	22,034	22,443	12.92%	1.86%
Two-Year	#	8,329	8,734	9,188	9,227	10,504	11,225	11,279	9,132	10,393	10,610	27.39%	2.09%
	%	41.9%	43.2%	44.1%	42.7%	47.3%	46.9%	47.5%	43.4%	47.2%	47.3%		
Four Year	#	11,546	11,461	11,651	12,371	11,724	12,723	12,463	11,861	11,641	11,833	2.49%	1.65%
	%	58.1%	56.8%	55.9%	57.3%	52.7%	53.1%	52.5%	56.4%	52.8%	52.7%		
Women	#	11,020	11,093	11,421	11,755	12,013	13,067	12,997	11,596	12,175	12,342	12.00%	1.37%
	%	55.4%	54.9%	54.8%	54.4%	54.0%	54.6%	54.7%	55.2%	55.3%	55.0%		
Men	#	8,854	9,101	9,411	9,838	10,211	10,863	10,733	9,397	9,844	10,092	13.98%	2.52%
	%	44.5%	45.1%	45.2%	45.6%	45.9%	45.4%	45.2%	44.7%	44.7%	45.0%		
African American	#	1,865	1,793	1,895	2,055	2,269	2,433	2,553	1,525	2,209	2,065	10.72%	-6.52%
	%	9.4%	8.9%	9.1%	9.5%	10.2%	10.2%	10.8%	7.3%	10.0%	9.2%		
Caucasian	#	16,559	16,179	16,567	17,723	17,758	18,381	18,011	14,289	17,215	17,071	3.09%	-0.84%
	%	83.3%	80.1%	79.5%	82.1%	79.9%	76.8%	75.9%	68.0%	78.1%	76.1%		
Hispanic	#	339	381	359	481	486	374	343	275	470	620	82.89%	31.91%
	%	1.7%	1.9%	1.7%	2.2%	2.2%	1.6%	1.4%	1.3%	2.1%	2.8%		
Asian / Pacific Islander	#	318	347	345	372	347	408	395	333	486	537	68.87%	10.49%
	%	1.6%	1.7%	1.7%	1.7%	1.6%	1.7%	1.7%	1.6%	2.2%	2.4%		
Other	#	794	1,495	1,673	967	1,368	2,352	2,440	4,596	1,654	2,150	170.78%	29.99%
	%	4.0%	7.4%	8.0%	4.5%	6.2%	9.8%	10.3%	21.9%	7.5%	9.6%		

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 2: Recent Missouri Public High School Graduate Enrollment in Remediation by Institutional Admissions Selectivity; 2010 to 2014

	2010	2011	2012	2013	2014
Selective	7.6%	7.1%	13.1%	10.9%	10.5%
Math	7.1%	6.6%	12.4%	10.1%	9.5%
English	1.4%	1.2%	1.5%	1.4%	1.6%
Reading	-	-	-	-	-
Mod Selective	28.7%	25.6%	33.0%	31.7%	21.4%
Math	22.5%	18.0%	26.9%	25.2%	13.0%
English	10.8%	10.5%	11.1%	12.5%	11.1%
Reading	-	-	3.6%	3.8%	3.4%
Open	57.1%	57.0%	54.7%	54.2%	47.8%
Math	48.0%	48.9%	47.1%	45.7%	41.7%
English	31.0%	25.9%	25.3%	25.8%	20.0%
Reading	18.1%	19.6%	18.0%	18.0%	13.8%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 3: Recent Missouri Public High School Graduate Enrollment in Remediation by Gender; 2010 to 2014

	2010	2011	2012	2013	2014
Women	37.3%	37.1%	37.5%	38.6%	32.4%
Math	32.2%	32.5%	33.2%	33.7%	28.2%
English	17.7%	15.2%	14.1%	15.4%	12.2%
Reading	10.0%	10.9%	10.0%	10.8%	8.4%
Men	34.5%	33.5%	33.3%	31.9%	28.7%
Math	27.9%	26.8%	27.9%	25.7%	23.6%
English	18.4%	15.6%	14.5%	15.6%	12.4%
Reading	8.5%	9.2%	8.0%	8.4%	6.6%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 4: Recent Missouri Public High School Graduate Enrollment in Remediation by Race; 2010 to 2014					
	2010	2011	2012	2013	2014
African-American	61.1%	60.5%	54.1%	65.5%	52.5%
Math	52.5%	51.7%	46.9%	57.8%	44.0%
English	38.8%	35.0%	25.3%	37.6%	32.1%
Reading	30.8%	29.1%	12.4%	27.1%	23.9%
Caucasian	31.1%	33.7%	30.3%	31.7%	27.0%
Math	25.9%	28.6%	25.8%	26.8%	23.0%
English	14.4%	13.1%	10.3%	12.3%	10.0%
Reading	6.3%	8.0%	5.8%	7.4%	5.6%
Hispanic	36.2%	41.1%	45.5%	43.8%	42.4%
Math	31.3%	34.9%	33.9%	35.1%	31.6%
English	19.9%	21.7%	20.9%	19.4%	19.7%
Reading	11.2%	17.0%	17.3%	12.3%	13.4%
Asian / Pacific Islander	44.0%	27.9%	18.5%	26.1%	25.0%
Math	35.9%	20.2%	13.4%	19.3%	18.3%
English	20.8%	16.1%	9.0%	12.8%	12.5%
Reading	12.3%	11.0%	3.9%	8.6%	8.4%
Other / Unknown	46.9%	24.1%	46.8%	37.7%	38.0%
Math	39.4%	19.1%	41.9%	29.3%	34.6%
English	24.2%	11.1%	23.1%	18.0%	9.1%
Reading	9.1%	5.4%	18.4%	9.6%	5.4%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Performance and Retention in College

Table 5: Recent Missouri Public High School Graduate Retention by Gender and Race/Ethnicity, Fall 2011- Fall 2012								
	Students	Completed Fall 2013	Avg. Fall 2013 GPA	Avg. Credits Completed (Fall 2013)	Completed Spring 2014	Avg. Spring 2014 GPA	Avg. Credits Completed (Spring 2014)	Enrolled Fall 2014
Female	12,175	98.6%	2.90	18.4	89.3%	2.90	30.9	78.9%
African American	1,332	97.5%	2.41	10.1	84.9%	2.39	20.0	68.2%
Caucasian	9,438	98.7%	2.98	19.8	90.0%	2.99	32.6	80.5%
Hispanic	269	98.9%	2.82	17.4	86.6%	2.85	28.7	77.0%
Asian / Pacific Islander	240	99.2%	3.12	21.9	94.2%	3.08	34.9	88.8%
Other/Unknown	895	98.8%	2.75	16.1	88.0%	2.75	27.9	76.7%
Male	9,844	98.1%	2.62	17.5	85.8%	2.68	29.9	74.8%
African American	874	98.1%	2.13	9.1	80.3%	2.23	19.0	60.8%
Caucasian	7768	98.1%	2.69	18.6	86.7%	2.74	31.1	76.5%
Hispanic	200	99.5%	2.61	18.0	88.5%	2.56	29.4	77.0%
Asian / Pacific Islander	246	97.2%	2.78	18.7	90.2%	2.80	31.2	82.9%
Other/Unknown	756	98.3%	2.45	15.7	80.8%	2.55	28.1	69.4%
Total	22,034	98.4%	2.78	18.0	87.8%	2.81	30.4	77.1%
African American	2,209	97.7%	2.30	9.7	83.1%	2.33	19.6	65.2%
Caucasian	17,215	98.4%	2.85	19.2	88.5%	2.88	31.9	78.7%
Hispanic	470	99.1%	2.72	17.6	87.5%	2.72	29.0	76.8%
Asian / Pacific Islander	486	98.2%	2.95	20.3	92.2%	2.94	33.1	85.8%
Other/Unknown	1,653	98.6%	2.62	16.0	84.8%	2.66	28.0	73.3%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 6: Recent Missouri Public High School Graduate Retention by Sector and Race/Ethnicity, Fall 2011- Fall 2012

Sector	Students	Completed Fall 2013	Avg. Fall 2013 GPA	Avg. Credits Completed (Fall 2013)	Completed Spring 2014	Avg. Spring 2014 GPA	Avg. Credits Completed (Spring 2014)	Enrolled Fall 2014
Public 2Y	10,393	97.8%	2.55	13.5	82.1%	2.62	23.8	66.3%
African American	1072	96.9%	2.12	5.5	76.8%	2.23	12.8	53.5%
Caucasian	8105	97.9%	2.60	14.6	82.7%	2.68	25.3	67.7%
Hispanic	266	98.9%	2.70	15.7	85.7%	2.65	25.5	73.3%
Asian / Pacific Islander	171	98.3%	2.67	12.5	90.1%	2.69	21.9	79.0%
Other/Unknown	778	98.5%	2.43	12.3	80.2%	2.53	22.2	64.7%
Public 4Y	11,641	98.9%	2.98	22.0	92.8%	2.95	35.7	86.7%
African American	1137	98.5%	2.47	13.6	89.1%	2.41	25.2	76.3%
Caucasian	9110	98.9%	3.07	23.3	93.7%	3.04	37.1	88.5%
Hispanic	204	99.5%	2.77	20.1	89.7%	2.80	33.2	81.4%
Asian / Pacific Islander	315	98.1%	3.11	24.6	93.3%	3.07	39.0	89.5%
Other/Unknown	875	98.6%	2.78	19.2	88.8%	2.77	32.7	81.1%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Degree Completion

Table 7: Recent Missouri Public High School Graduate Six-Year Completion Rate by Gender and Race/Ethnicity, Fall 2006 through Spring 2012

	Students	% Completed Associate's	% Completed at least Bachelor's	% Completed Graduate / Professional	Total Completions
Female	11,843	15.7%	39.8%	2.8%	52.0%
African American	1,248	6.8%	22.9%	0.5%	28.4%
Caucasian	9,655	17.0%	42.4%	3.1%	55.5%
Hispanic	249	18.9%	28.9%	2.8%	44.6%
Asian / Pacific Islander	187	14.4%	52.4%	4.8%	62.0%
Other/Unknown	504	13.5%	33.1%	2.2%	43.3%
Male	9,920	13.3%	35.4%	2.2%	45.9%
African American	781	4.6%	18.8%	0.5%	22.8%
Caucasian	8,252	14.1%	37.1%	2.3%	48.2%
Hispanic	229	17.5%	28.4%	2.2%	41.9%
Asian / Pacific Islander	187	9.6%	46.0%	3.2%	54.0%
Other/Unknown	471	14.0%	32.5%	1.3%	43.3%
Total	21,768	14.6%	37.8%	2.5%	49.3%
African American	2,029	6.0%	21.3%	0.5%	26.3%
Caucasian	17,911	15.6%	40.0%	2.8%	52.2%
Hispanic	478	18.2%	28.7%	2.5%	43.3%
Asian / Pacific Islander	374	12.0%	49.2%	4.0%	58.0%
Other/Unknown	976	13.7%	32.9%	1.7%	43.3%

Source: Enhanced Missouri Student Achievement Study (EMSAS)

Table 8: Recent Missouri Public High School Graduate Six-Year Completion Rate by Institutional Admissions Selectivity, Fall 2006 through Spring 2012

	Students	Completed Associate's Degree	% Completed at least Bachelor's	% Completed Graduate / Professional	Total Completions
Total	21,768	14.6%	37.8%	2.5%	49.3%
Highly Selective	773	3.8%	75.3%	10.6%	78.1%
Selective	6,687	3.3%	65.0%	5.3%	68.1%
Moderately Selective	3,709	3.9%	53.6%	2.2%	56.0%
Open	10,599	26.4%	12.5%	0.3%	32.9%

Source: Enhanced Missouri Student Achievement Study (EMSAS)





